

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/530, 016A
Source: FW16
Date Processed by STIC: 3/8/07

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:46

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

```

3 <110> APPLICANT: BERGMAN, MATHIAS
4     AUVINEN, MERJA
5     ELO, HANNU
7 <120> TITLE OF INVENTION: TUMOR TARGETING AGENTS AND USES THEREOF
9 <130> FILE REFERENCE: 1014975-000112
11 <140> CURRENT APPLICATION NUMBER: 10/530,016A
12 <141> CURRENT FILING DATE: 2005-04-01
14 <150> PRIOR APPLICATION NUMBER: PCT/FI03/00724
15 <151> PRIOR FILING DATE: 2003-10-03
17 <150> PRIOR APPLICATION NUMBER: FI 20021761
18 <151> PRIOR FILING DATE: 2002-10-03
20 <160> NUMBER OF SEQ ID NOS: 42
22 <170> SOFTWARE: PatentIn Ver. 3.3
24 <210> SEQ ID NO: 1.
25 <211> LENGTH: 5
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
31     peptide
33 <400> SEQUENCE: 1
34 Cys Leu Arg Ser Cys
35     1             5
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 5
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
45     peptide
47 <400> SEQUENCE: 2
48 Cys Ser Arg Leu Cys
49     1             5
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 5
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
59     peptide
61 <400> SEQUENCE: 3
62 Asp Leu Arg Ser Lys
63     1             5

```

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:46

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

```

66 <210> SEQ ID NO: 4
67 <211> LENGTH: 7
68 <212> TYPE: PRT
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
73     peptide
75 <400> SEQUENCE: 4
76 Asp Leu Arg Ser Gly Arg Lys
77   1             5
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 7
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
87     peptide
89 <400> SEQUENCE: 5
90 Asp Arg Gly Leu Arg Ser Lys
91   1             5
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 5
96 <212> TYPE: PRT
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
101     peptide
103 <220> FEATURE:
104 <221> NAME/KEY: MOD_RES
105 <222> LOCATION: (1)
106 <223> OTHER INFORMATION: Orn
108 <400> SEQUENCE: 6
W--> 109 Xaa Leu Arg Ser Glu
110   1             5
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 5
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
120     peptide
122 <400> SEQUENCE: 7
123 Lys Leu Arg Ser Asp
124   1             5
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 4
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:46

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

```

133 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
134     peptide
136 <400> SEQUENCE: 8
137 Arg Leu Gln Asp
138 1
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 4
143 <212> TYPE: PRT
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
148     peptide
150 <400> SEQUENCE: 9
151 His Trp Gly Phe
152 1
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 10
157 <212> TYPE: PRT
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
162     peptide
164 <400> SEQUENCE: 10
165 Cys Thr Thr His Trp Gly Phe Thr Leu Cys
166 1 5 10
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 12
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
176     peptide
178 <400> SEQUENCE: 11
179 Thr Ser Pro Leu Asn Ile His Asn Gly Gln Lys Leu
180 1 5 10
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 16
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
190     peptide
192 <400> SEQUENCE: 12
193 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
194 1 5 10 15
197 <210> SEQ ID NO: 13
198 <211> LENGTH: 7
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:46

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

```

202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
204     peptide
206 <400> SEQUENCE: 13
207 Lys Leu Ala Lys Leu Ala Lys
208     1             5
211 <210> SEQ ID NO: 14
212 <211> LENGTH: 6
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
218     peptide
220 <220> FEATURE:
221 <221> NAME/KEY: MOD_RES
222 <222> LOCATION: (1)
223 <223> OTHER INFORMATION: Ahx
225 <400> SEQUENCE: 14
W--> 226 Xaa Asp Leu Arg Ser Lys
227     1             5
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 6
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
237     peptide
239 <220> FEATURE:
240 <221> NAME/KEY: MOD_RES
241 <222> LOCATION: (1)
242 <223> OTHER INFORMATION: 2Dap
244 <400> SEQUENCE: 15
W--> 245 Xaa Asp Leu Arg Ser Lys
246     1             5
249 <210> SEQ ID NO: 16
250 <211> LENGTH: 6
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
256     peptide
258 <220> FEATURE:
259 <221> NAME/KEY: MOD_RES
260 <222> LOCATION: (1)
261 <223> OTHER INFORMATION: Aoa
263 <400> SEQUENCE: 16
W--> 264 Xaa Asp Leu Arg Ser Lys
265     1             5
268 <210> SEQ ID NO: 17

```

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:46

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

```

269 <211> LENGTH: 7
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
275     peptide
277 <220> FEATURE:
278 <221> NAME/KEY: MOD_RES
279 <222> LOCATION: (2)
280 <223> OTHER INFORMATION: Ahx
282 <400> SEQUENCE: 17
W--> 283 Lys Xaa Asp Leu Arg Ser Lys
284     1             5
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 9
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
294     peptide
296 <220> FEATURE:
297 <221> NAME/KEY: MOD_RES
298 <222> LOCATION: (4)
299 <223> OTHER INFORMATION: Ahx
301 <400> SEQUENCE: 18
W--> 302 Lys Lys Lys Xaa Asp Leu Arg Ser Lys
303     1             5
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 9
308 <212> TYPE: PRT
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
313     peptide
315 <220> FEATURE:
316 <221> NAME/KEY: MOD_RES
317 <222> LOCATION: (3)
318 <223> OTHER INFORMATION: Lys(Dtpa)
320 <220> FEATURE:
321 <221> NAME/KEY: MOD_RES
322 <222> LOCATION: (4)
323 <223> OTHER INFORMATION: Ahx
325 <400> SEQUENCE: 19
W--> 326 Lys Lys Lys Xaa Asp Leu Arg Ser Lys
327     1             5
330 <210> SEQ ID NO: 20
331 <211> LENGTH: 6
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/530,016A

DATE: 03/08/2007
TIME: 14:08:47

Input Set : A:\11497512.APP
Output Set: N:\CRF4\03082007\J530016A.raw

FYI
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 1 ✓
Seq#:14; Xaa Pos. 1 ✓
Seq#:15; Xaa Pos. 1 ✓
Seq#:16; Xaa Pos. 1 ✓
Seq#:17; Xaa Pos. 2 ✓
Seq#:18; Xaa Pos. 4 ✓
Seq#:19; Xaa Pos. 4 ✓
Seq#:20; Xaa Pos. 1
Seq#:21; Xaa Pos. 1
Seq#:40; Xaa Pos. 6
Seq#:41; Xaa Pos. 1,2

VERIFICATION SUMMARY

DATE: 03/08/2007

PATENT APPLICATION: US/10/530,016A

TIME: 14:08:47

Input Set : A:\11497512.APP

Output Set: N:\CRF4\03082007\J530016A.raw

L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0